

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 324TTFC6027

Catalog No: E984B

40 HP General Purpose Motor, 3 phase, 1800 RPM, 208-230/460 V, 324T Frame, TEFC
General Purpose Motors



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RegalRexnord


Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	60 Hz	Voltage	208-230/460 V
Current	99.0-95.0/47.5 A	Speed	1780 rpm
Service Factor	1.15	Phase	3
Efficiency	94.1 %	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	324T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6312
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications

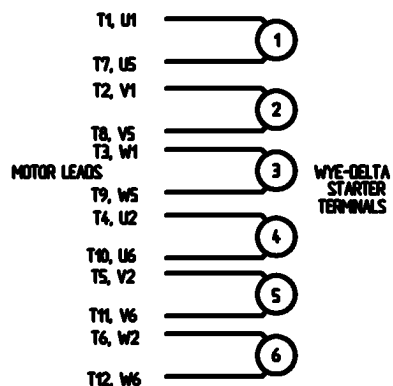
Electrical Type	Squirrel Cage Induction Run	Starting Method	Wye Start Delta Run
Poles	4	Rotation	Reversible
Resistance Main	.042 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	29.53 in
Shaft Diameter	2.130 in	Shaft Extension	5.25 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	169541.60ME	Connection Drawing	004172.03



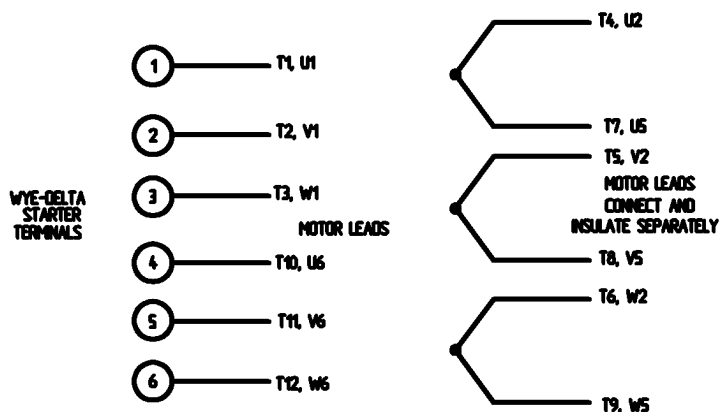
				TOLERANCES UNLESS SPECIFIED			DRAWN JJK 03/29/99
				DEC. INCHES			CHK
				.X ±.1			APPD PG 03/31/99
				.XX ±.03	TITLE OUTLINE - 320T FRAME		SCALE 1=4
				.XXX ±.005	TEFC - RIGID		REF 169S04
01	ADDED HOLE FOR 326T BASE	JJK 07/13/99		.XXXX ±.0005	MAT'L CAST IRON		FMM
NO.	REVISION	BY & DATE	CHK	ANG ±1/2"	FINISH		PREV
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT					RFP	CAD FILE 169S4160ME	SIZE B
					DIST		DRAWING NO. 169S41-60ME
							REV. 01

WYE - DELTA STARTING USEABLE ON 2,4 AND 6 POLE MOTORS.

LOW VOLTAGE CONNECTION

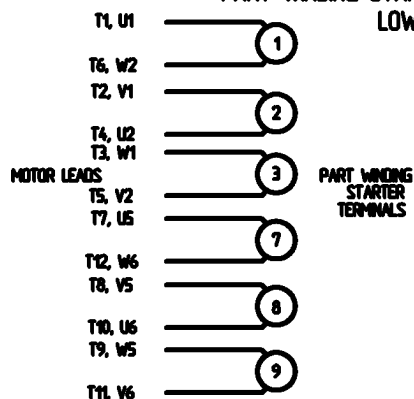


HIGH VOLTAGE CONNECTION



REFER TO THE WYE-DELTA STARTER CONNECTION INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

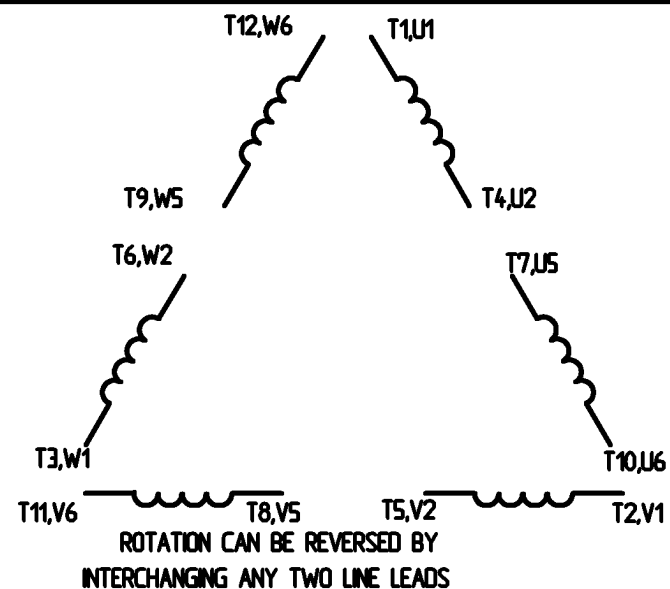
PART WINDING START USABLE ON 4 & 6 POLE MOTORS LOW VOLTAGE CONNECTION ONLY



REFER TO THE PART WINDING STARTER INSTRUCTIONS FOR PROPER CONNECTION OF POWER LINES TO STARTER.

REFER TO THE CUTLER - HAMMER OR EQUIV. FOR PROPER SELECTION OF OVERLOAD HEATER COILS.

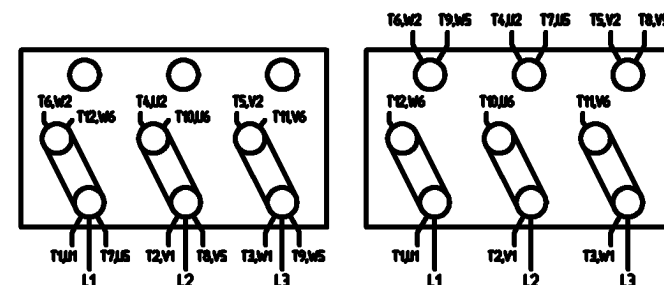
LINE LEADS



12 LEAD DELTA CONNECTION ACROSS THE LINE START (FOR Y START DELTA RUN, REMOVE THE JUMPERS)

LOW VOLTAGE
(MUST BE REWIRED AS SHOWN)

HIGH VOLTAGE
(FACTORY WIRED FOR HIGH VOLTAGE AS SHOWN)



				TOLERANCES UNLESS SPECIFIED		<div>LEESON</div>	ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN C/W 08/28/02	
				DEC.	INCHES			CHK	
				X	± .1	TITLE DELTA - WYE CONNECTION DIAGRAM IEC CAST IRON MOTORS		APPD	
				XX	± .01			SCALE	1:1
				XXX	± .005			REF	
				XXXX	± .0005			FMF	
NO.	REVISION	BY & DATE	CHK	ANG	± 1/2°	FINISH		PREV	
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				DST					

ERROR: syntaxerror
OFFENDING COMMAND: --nostringval--

STACK:

/CB
-dictionary-
/Pscript_WinNT_Compat
-dictionary-

CERTIFICATION DATA SHEET

Model#: 324TTFC6027 AA

WINDING#: T16104005 NONE 3

CONN. DIAGRAM: 4172.03

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: 169541.60ME

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
40&30	30&22.4	1800	1780&1481	324T	TEFC	G	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	208- 230/460#190/ 380	99- 95/47.5&84/42	WYE START DELTA RUN	CONTINUOUS	F2	1.15/1.15	40	3300

FULL LOAD EFF: 94.1&93.6	3/4 LOAD EFF: 94.5	1/2 LOAD EFF: 94.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 86&86.5	3/4 LOAD PF: 82	1/2 LOAD PF: 74.5	93	SQ CAGE IND RUN	35 / 17.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
119 LB-FT	580 / 290	225 LB-FT 189	350 LB-FT 294	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
57 dBA	67 dBA	6.32 LB-FT^2	- LB-FT^2	20 SEC.	2	538 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6312	6312						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

* N O T E S *	INVERTER TORQUE: NONE
	INV. HP SPEED RANGE: NONE
	ENCODER: NONE
	NONE NONE NONE NONE PPR
	BRAKE: NONE NONE
	NONE P/N NONE
	NONE NONE
	- FT-LB NONE V NONE Hz

DATE: 06/21/2017 04:30:48 AM
FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 12/13/2018

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



324TTF6027

Submittal

Data @ 460 V

Motor Load Data

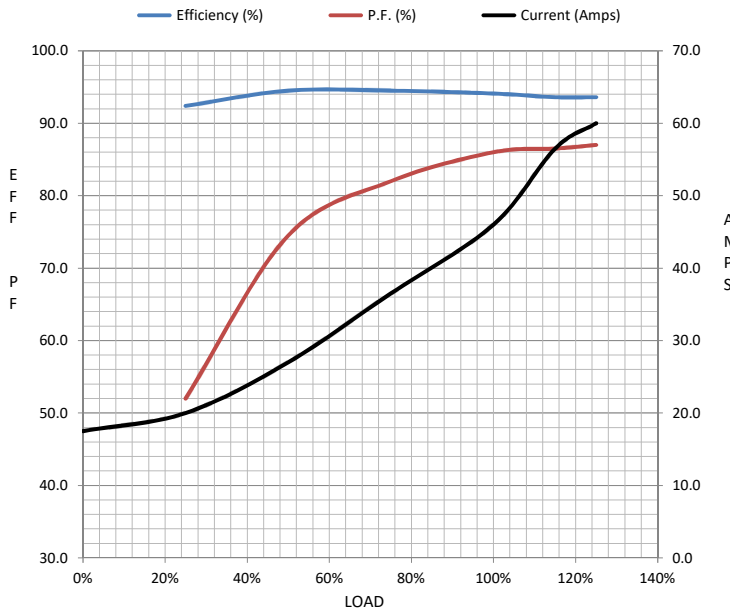
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	17.5	20.0	27.0	36.5	46.0	56.5	60.0	290	
Torque (ft-lb)	0.00	30.5	60.5	90.5	119	137	150	225	
RPM	1800	1795	1790	1785	1780	1,775	1772	0	
Efficiency (%)		92.4	94.5	94.5	94.1	93.6	93.6		
P.F. (%)	4.5	52.0	74.5	82.0	86.0	86.5	87.0	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1625	1780	1800
Current (Amps)	290	260	190	46.0	17.5
Torque (ft-lb)	225	200	350	119	0.00

Information Block

HP	40.0			
Sync. RPM	1800			
Frame	324			
Enclosure	TEFC			
Construction	TFS			
Voltage	208-230/460#190/380 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	46 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	6.3 Lb-Ft²			
Ref Wdg	T16104005 NONE			
Sound Pressure @ 1M	57 dBA			
VFD Rating	NONE			
Outline Dwg	169541.60ME			
Conn. Diag	4172.03			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0000	0.0000	0.0000	0.0000	0.0000



Speed -Torque Curve

